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FIG. 1

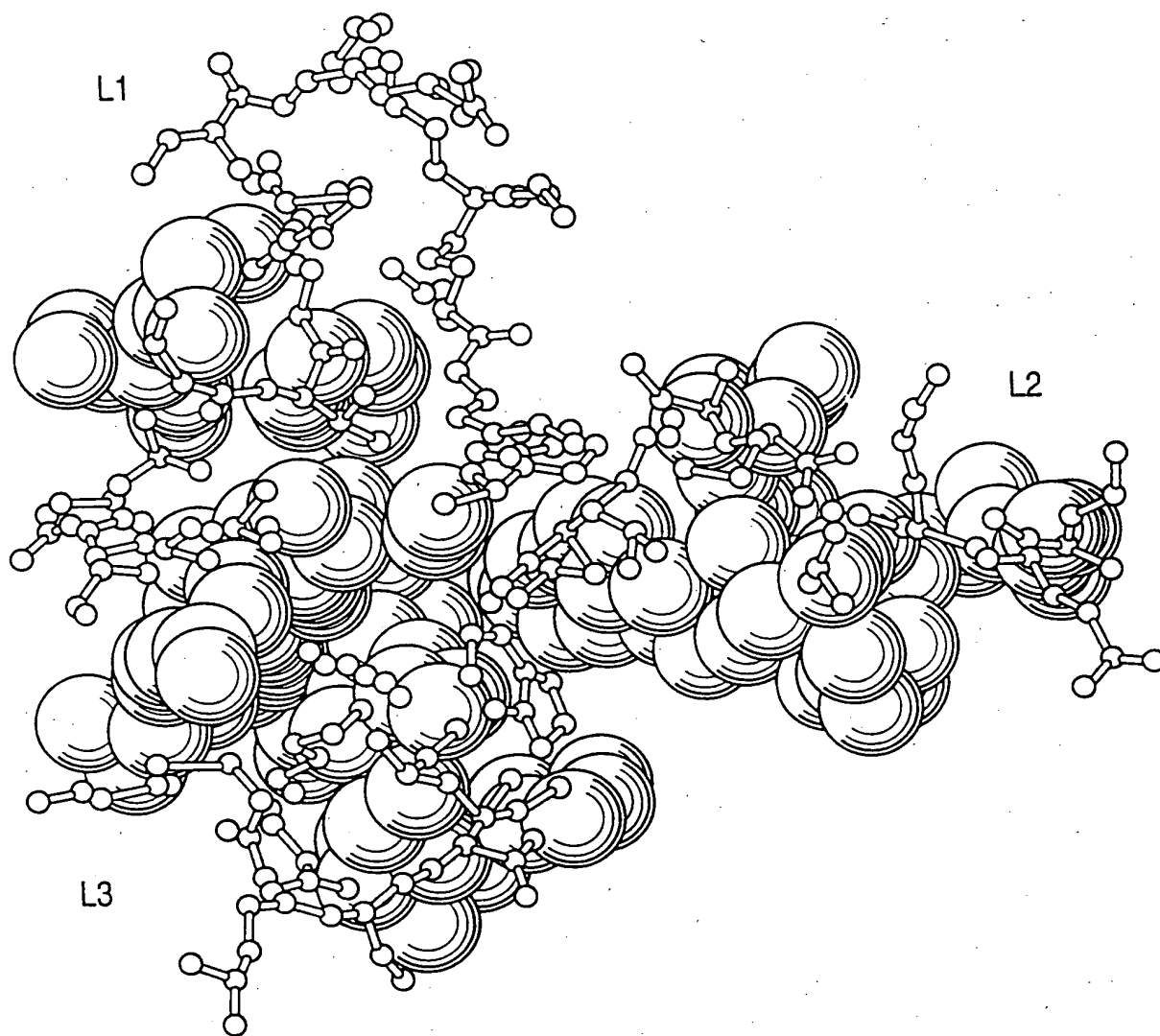
[illegible]

Title: IMMUNOCONJUGATES AND
HUMANIZED ANTIBODIES SPECIFIC
FOR B-CELL LYMPHOMA AND
LEUKEMIA CELLS

Inventor(s): Shui-on LEUNG et al.

Appl. No.: unassigned

FIG. 2A



Title: IMMUNOCONJUGATES AND
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FIG. 2B

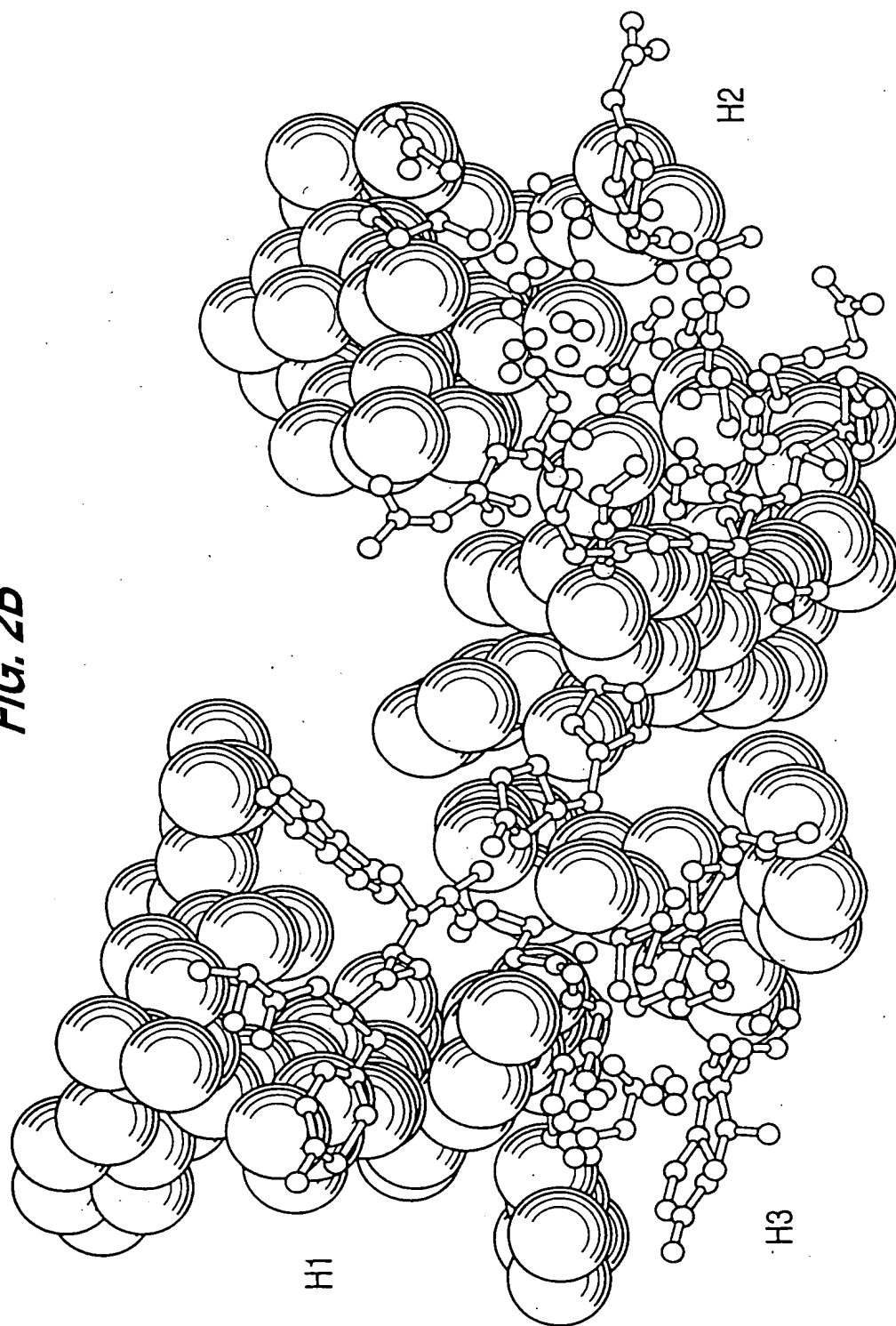


FIG. 3A

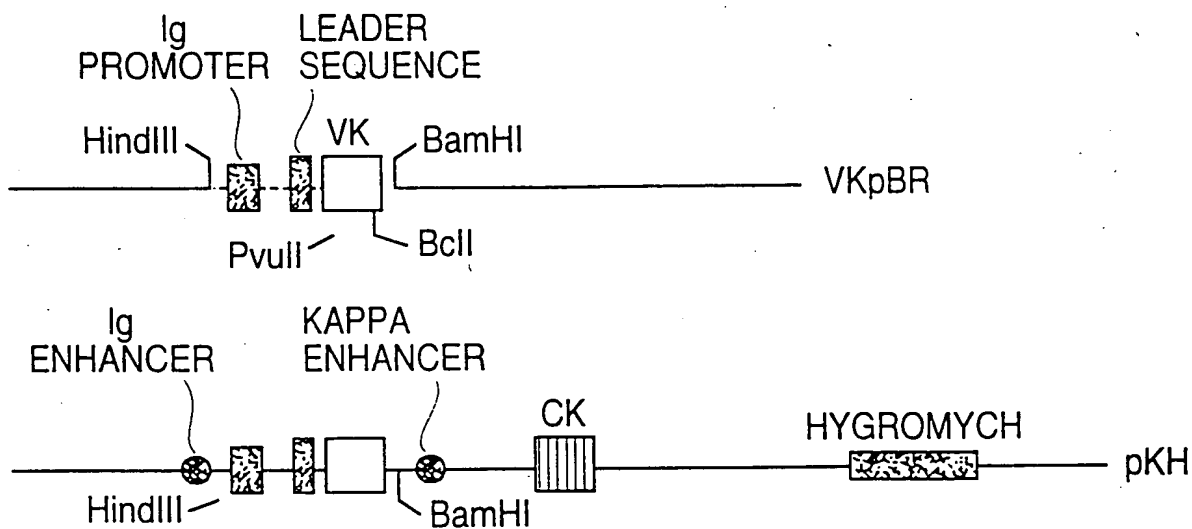


FIG. 3B

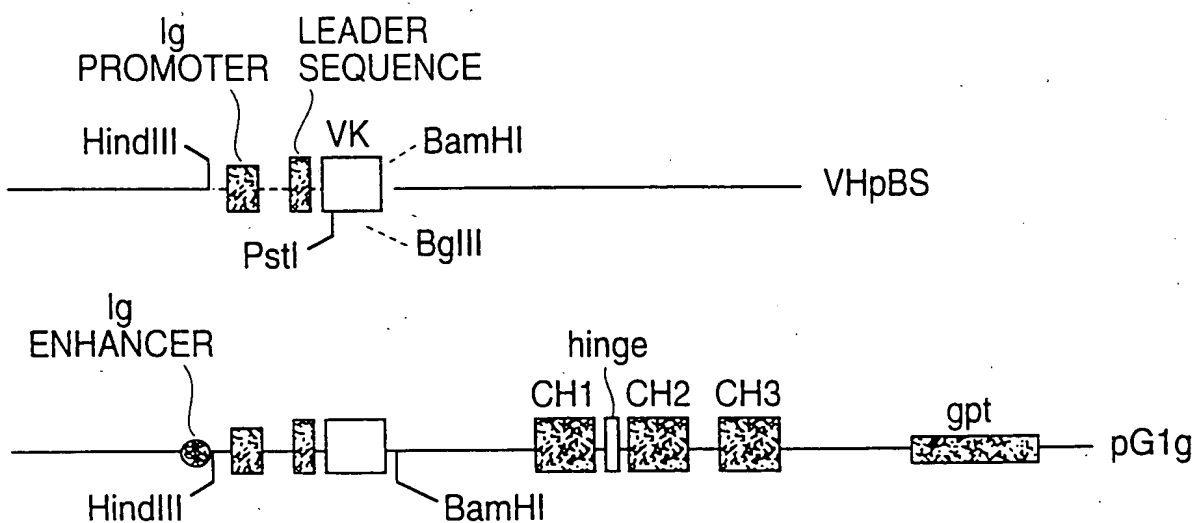


FIG. 4A

GACATTCAGCTGACCCAGTCTCCATCATCTCTGGCTGTGTCTGCAGGAGAAAACGTCACCT
 1-----+-----+-----+-----+-----+-----+-----+-----+ 60
 CTGTAAGTCGACTGGGTCAGAGGTAGTAGAGACCGACACAGACGTCCTCTTTTGCAGTGA
 D I Q L T Q S P S L A V S A G E N V T -
 ATGAGCTGTAAGTCCAGTCAAAGTGTTTTATACAGTGCAAAATCACAAGAACTACTTGGCC
 61-----+-----+-----+-----+-----+-----+-----+-----+ 120
 TACTCGACATTCAGGTCAGTTTCACAAAATATGTCACGTTTAGTGTTCTTGATGAACCGG
 CDR1
 M S C K S S Q S V L Y S A N H K N Y L A -
 TGGTACCAGCAGAAACACAGGCGAGTCTCCTAACTGCTGATCTACTGGCATCCACTAGG
 121-----+-----+-----+-----+-----+-----+-----+-----+ 180
 ACCATGGTCGCTTTGGTCCCGTCAGAGGATTTGACGACTAGATGACCCGTTAGGTGATCC
 CDR2
 W Y Q Q K P G Q S P K L L I Y W A S T R -
 GAATCTGGTGTCCCTGATCGCTTCACAGGCGGATCTGGACAGATTTTACTCTTACC
 181-----+-----+-----+-----+-----+-----+-----+-----+ 240
 CTTAGACCACAGGACTAGCGAAGTGTCCGTCGCCCTAGACCCCTGTCTAAAATGAGAATGG
 E S G V P D R F T G S G S G T D F T L T -
 ATCAGCAGAGTACAAGTTGAAGACCTGGCAATTTATTATTGTACCAATAACCTCTCCTCG
 241-----+-----+-----+-----+-----+-----+-----+-----+ 300
 TAGTCGTCTCATGTTCAACTTCTGGACCGTTAAATAATAACAGTGGTTATGGAGAGGAGC
 CDR3
 I S R V Q V E D L A I Y Y C H Q Y L S S -
 TGGACGTTCCGGTGGAGGGACCAAGCTGGAGATCAAACGT
 301-----+-----+-----+-----+-----+-----+-----+-----+ 339
 ACCTGCAAGCCACCTCCCTGGTTCGACCTCTAGTTTGCA
 W T F G G G T K L E I K R -

FIG. 4B

CAGGTCAGCTGCAGGAGTCAGGGGCTGAACCTGTCAAAACCTGGGGCCTCAGTGAAGATG
1-----+-----+-----+-----+-----+-----+ 60
GTCCAGGTCGACGTCCTCAGTCCCCGACTTGACAGTTTGGACCCCGGAGTCACTTCTAC
Q V Q L Q E S G A E L S K P G A S V K M -
TCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACTGGCTGCACTGGATAAAACAGAGG
61-----+-----+-----+-----+-----+-----+ 120
AGGACGTTCCGAAGACCGATGTGGAATGATCGATGACCGACGTGACCTATTTGTCTCC
CDR1
S C K A S G Y T F T S Y W L H W I K Q R -
CCTGGACAGGTCCTGGAATGGATTGGATACATTAATCCTAGGAATGATTACTGAGTAC
121-----+-----+-----+-----+-----+-----+ 180
GGACCTGTCCCAGACCTTACCTAACCTATGTAATTAGGATCCTTACTAATATGACTCATG
CDR2
P G Q G L E W I G Y I N P R N D Y T E Y -
AATCAGAACTTCAAGGACAAGGCCACATTTGACTGCAGACAAATCCTCCAGCACAGCCTAC
181-----+-----+-----+-----+-----+-----+ 240
TTAGTCTTGAAGTTCCCTGTTCCGGTGTAACTGACCTCTGTTTAGGAGGTCGTGTCGGATG
N Q N F K D K A T L T A D K S S T A Y -
ATGCAACTGAGCAGCCTGACATCTGAGGACTCTGCAGTCTATTAATGTCGAAGAGGAT
241-----+-----+-----+-----+-----+-----+ 300
TACGTTGACTCGTCGGACTGTAGACTCCTGAGACGTCAGATAATGACACGTTCTTCCCTA
M Q L S S L T S E D S A V Y Y C A R R D -
ATTACTACGTTCTACTGGGCCAAGCACCACTCTCACAGTCTCCTCG
301-----+-----+-----+-----+-----+-----+ 348
TAATGATGCAAGATGACCCCGGTTCCGTTGAGAGTGTGTCAGAGGAGC
CDR3
I T T F Y W G Q G T T L T V S S -

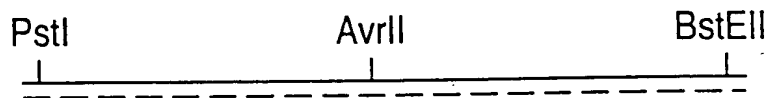
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FIG. 5B

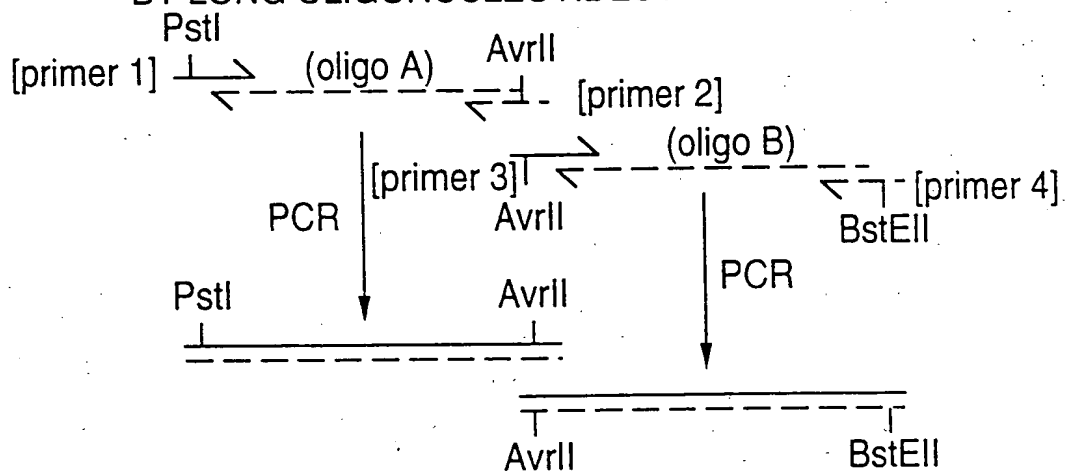
CAGGTCCAGCTGGTCCAATCAGGGGCTGAAGTCAAGAAACCTGGGTCAATCAGTGAAGGTC
 1-----+-----+-----+-----+-----+-----+-----+-----+ 60
 GTCCAGGTCGACCAAGGTTAGTCCCCGACTTCAGTTCTTTGGACCCAGTAGTCACTTCCAG
 Q V Q L V Q S G A E V K K P G S S V K V -
 TCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACTGGCTGCACTGGGTCAAGCAGGCA
 61-----+-----+-----+-----+-----+-----+-----+-----+ 120
 AGGACGTTCCGAAGACCGATGTGAAATGATCGATGACCGACGTGACCCAGTCCGTCCTCGT
 S C K A S G Y T F T S Y W L H W V R Q A -
 CCTGGACAGGCTCTGGAATGGATTGGATACATTAATCCTAGGAATGATTACTGAGTAC
 121-----+-----+-----+-----+-----+-----+-----+-----+ 180
 GGACCTGTCCCAGACCTTACCTAACCTATGTAATTAGGATCCTTACTAATAATGACTCATG
 CDR2
 P G Q G L E W I G Y I N P R N D Y T E Y -
 AATCAGAACTTCAAGGACAAGGCCACAATAACTGCAGACGAATCCACCAATACAGCCTAC
 181-----+-----+-----+-----+-----+-----+-----+-----+ 240
 TTAGTCTTGAAGTTCCTGTTCCGGTGTATTGACGTCTGCTAGGTGGTTATGTCTGGATG
N Q N F K D K A T I T A D E S T N T A Y -
 ATGGAGCTGAGCAGCCTGAGGTCTGAGGACACGGCATTTTATTTTGTCAAGAAGGAT
 241-----+-----+-----+-----+-----+-----+-----+-----+ 300
 TACCTCGACTCGTCGGACTCCAGACTCCTGTGCCGTAATAAACAACACGTTCTTCCCTA
 M E L S S L R S E D T A F Y F C A R R D -
 ATTACTAGTCTTACTGGGCCAAGCACCAACCGTCAACCGTCTCCCTCG
 301-----+-----+-----+-----+-----+-----+-----+-----+ 348
 TAATGATGCAAGATGACCCCGGTTCCGTGTGCCAGTGGCAGAGGAGC
 CDR3
I T T F Y W G Q G T T V T V S S -

FIG. 6

DESIGNED SEQUENCE FOR HUMANIZED LL2 VH DOMAIN:



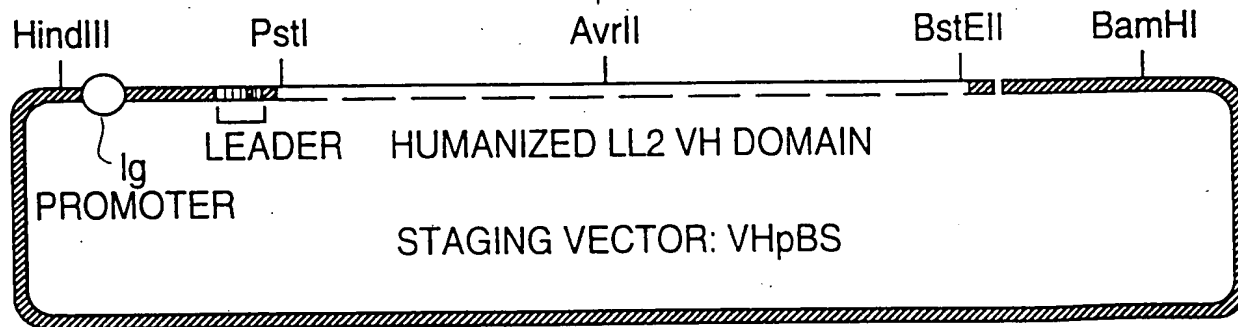
CONSTRUCTION OF THE HUMANIZED LL2 VH DOMAIN
BY LONG OLIGONUCLEOTIDES AND PCR:



PstI/AvrII DIGESTION

BstEII/AvrII DIGESTION

LIGATION TO THE PstI/BstEII
SITES OF THE HEAVY CHAIN
STAGING VECTOR: VHpBS

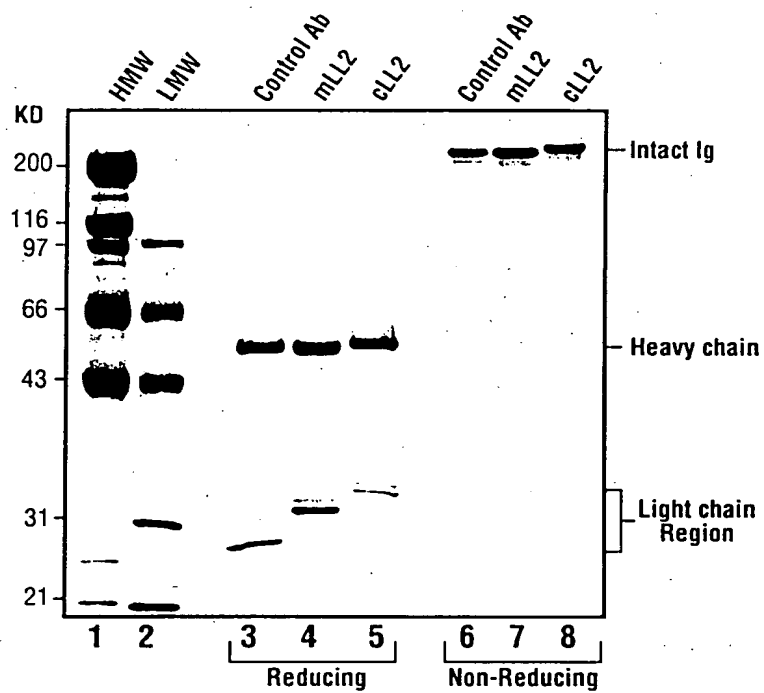


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FIG. 7



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FIG. 8

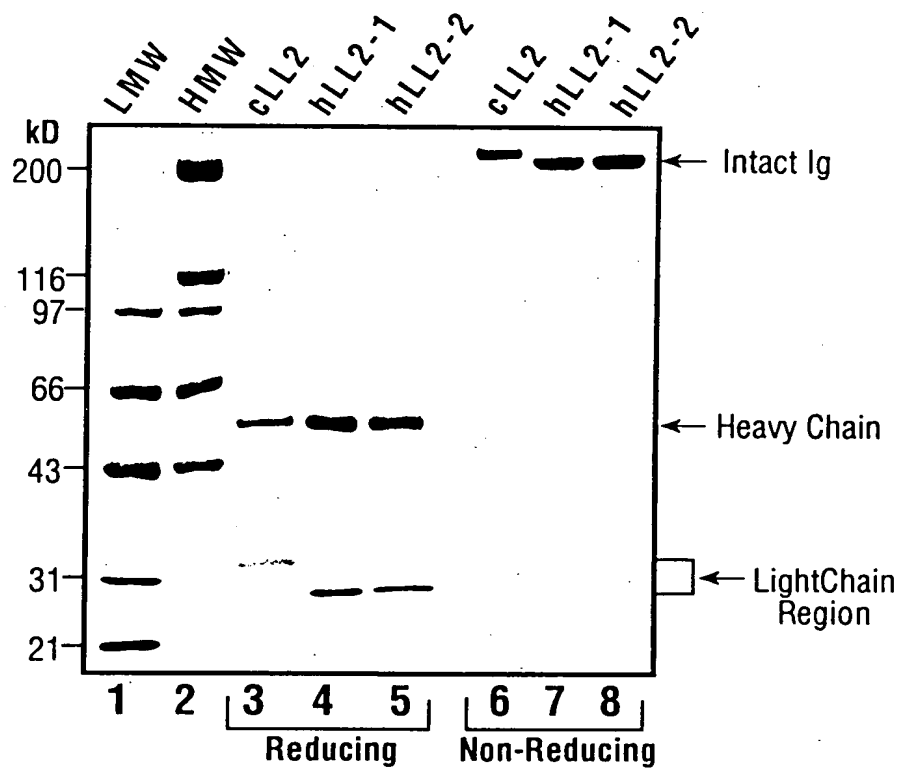


FIG. 9

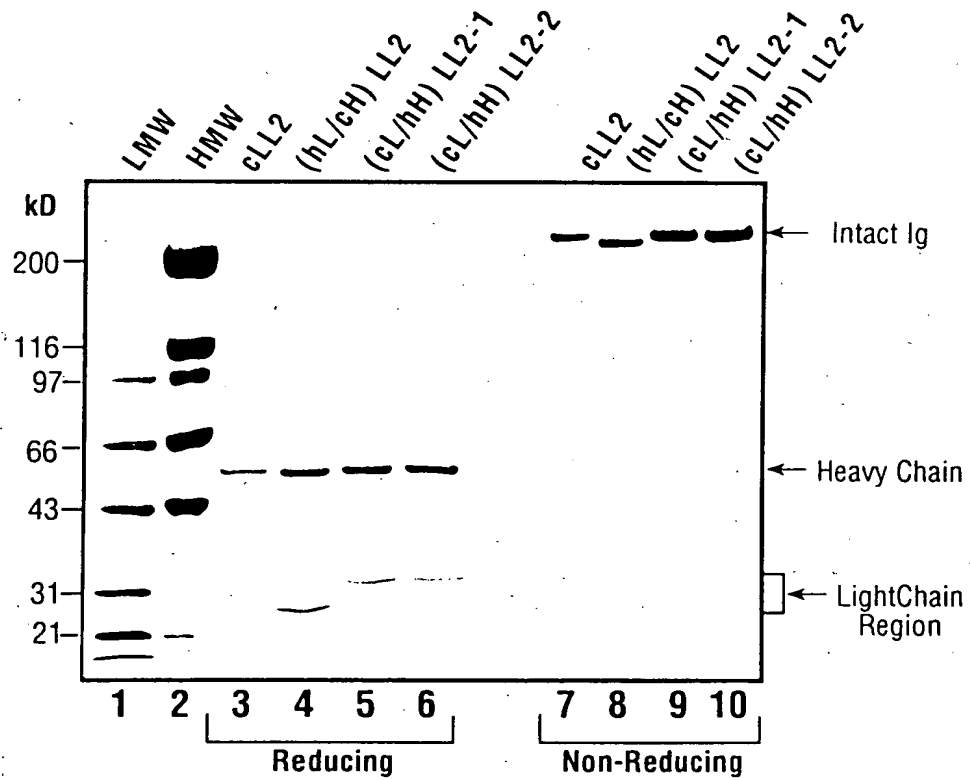


FIG. 10

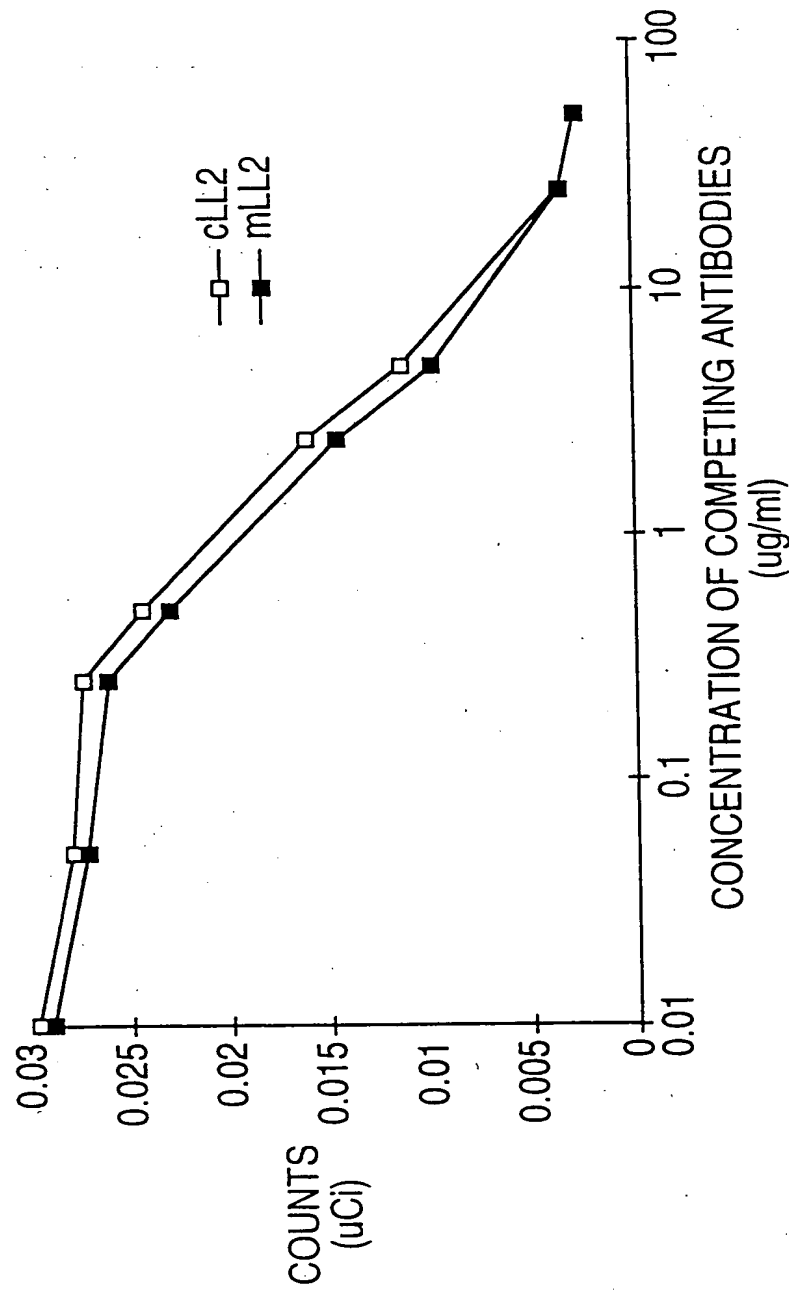


FIG. 11A

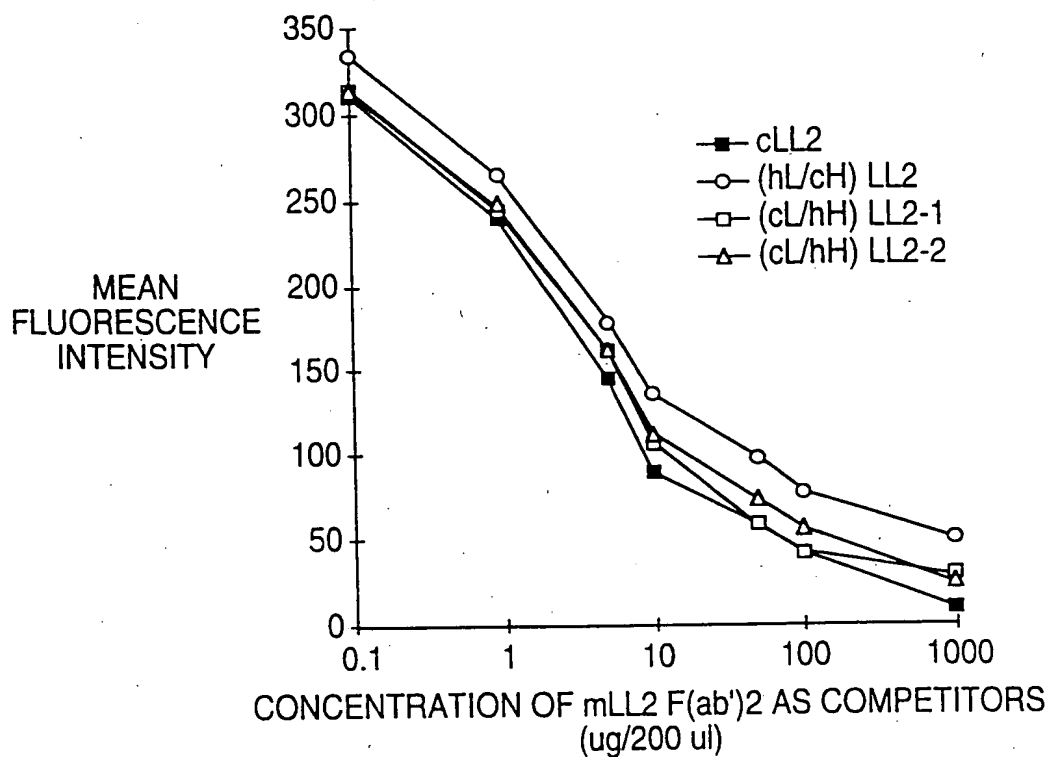


FIG. 11B

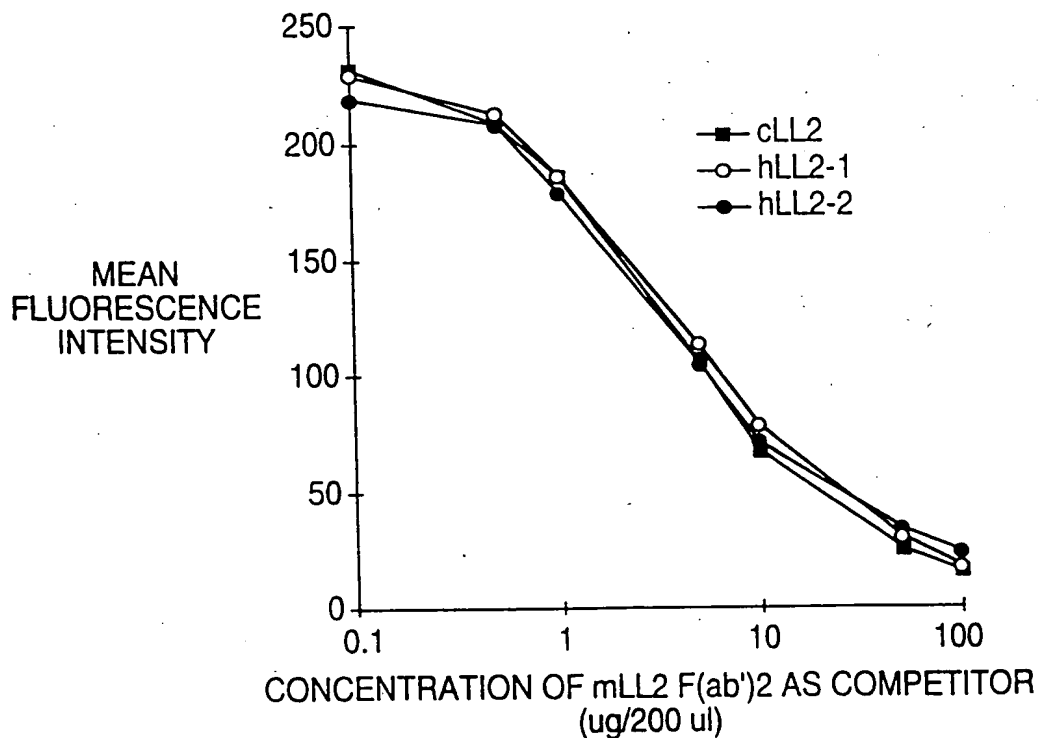


FIG. 12

INTERNALIZATION: c-LL2, h-LL2 vs. m-LL2 IN RAJI CELLS

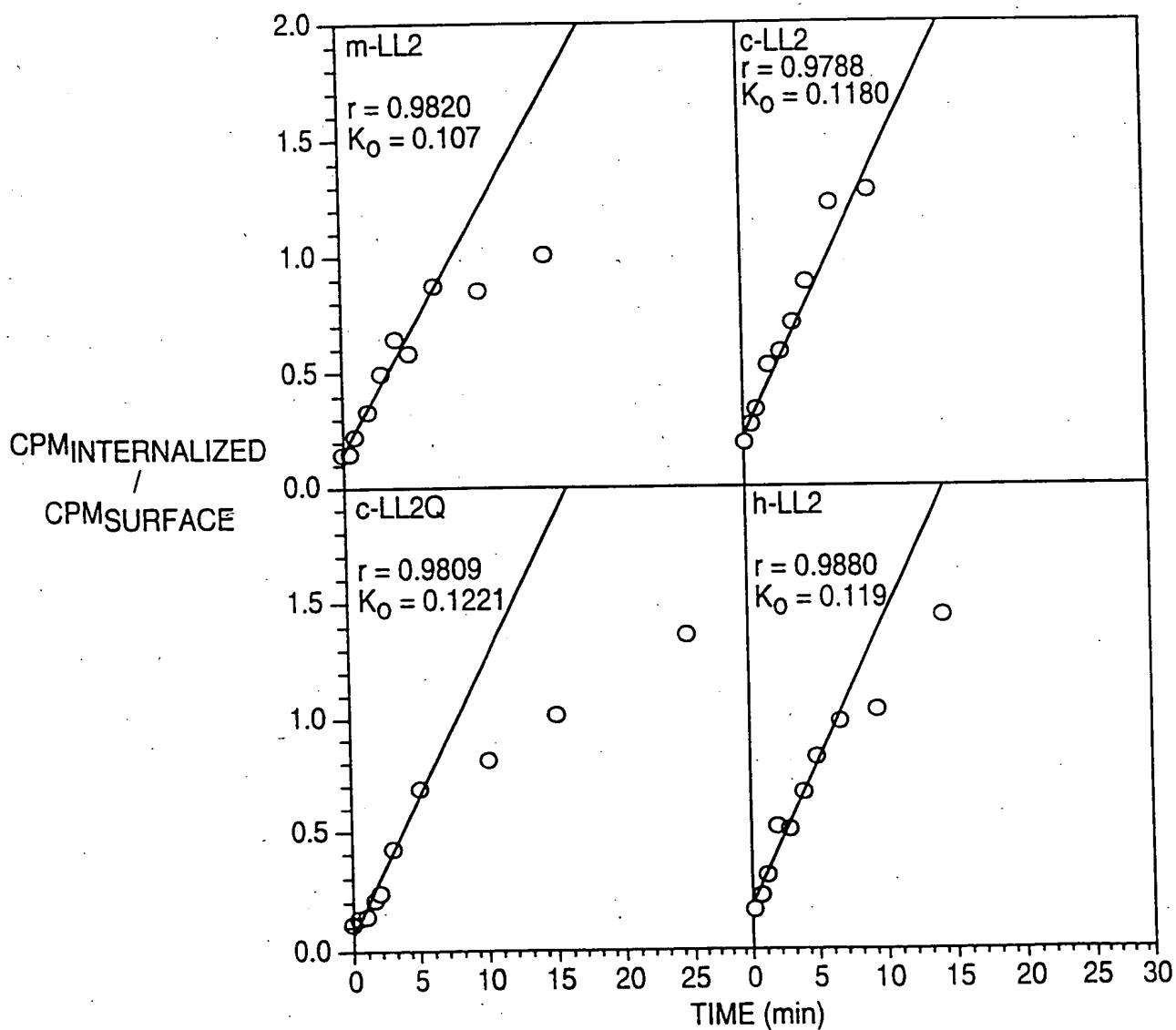
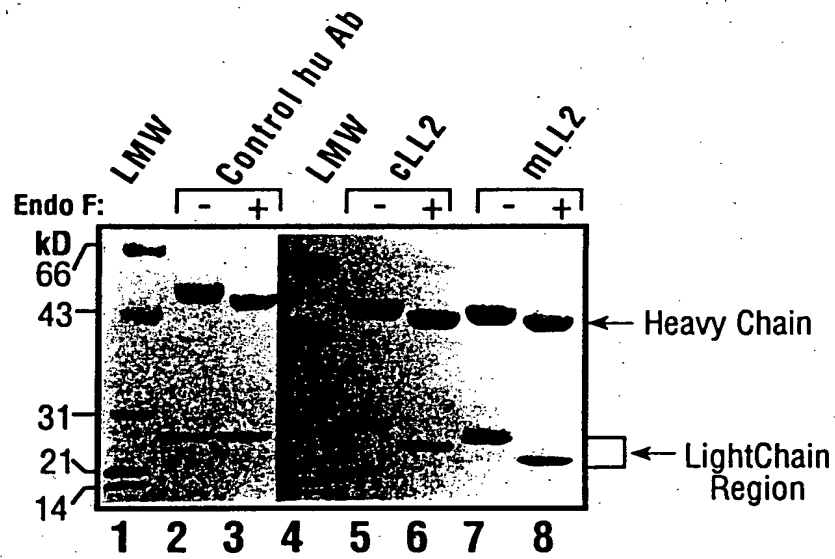


FIG. 13



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FIG. 14

